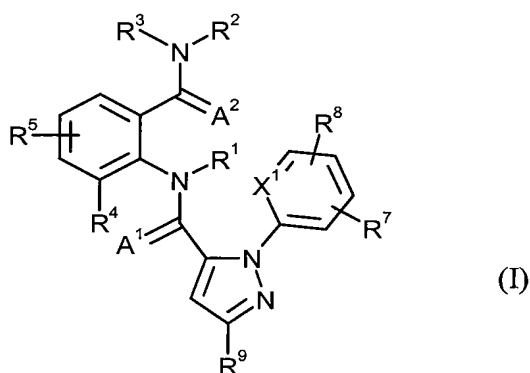


Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently amended) A composition comprising a synergistically effective combination of compounds of the formula (I)



in which

A¹ and A² independently of one another represent oxygen or sulfur,

X¹ represents N or CR¹⁰,

R¹ represents hydrogen or represents C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl or C₃-C₆-cycloalkyl, each of which is optionally mono- or polysubstituted, where the substituents independently of one another may be selected from the group consisting of R⁶, halogen, cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₂-C₄-alkoxycarbonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino, (C₁-C₄-alkyl)-C₃-C₆-cycloalkylamino and R¹¹,

R² represents hydrogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₆-cycloalkyl, C₁-C₄-alkoxy, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino, C₂-C₆-alkoxycarbonyl or C₂-C₆-alkylcarbonyl,

R³ represents hydrogen, R¹¹ or represents C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₆-cycloalkyl, each of which is optionally mono- or polysubstituted, where the substituents independently of one another may be selected from the group consisting of R⁶, halogen, cyano, nitro,

hydroxyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₂-C₆-alkoxycarbonyl, C₂-C₆-alkylcarbonyl, C₃-C₆-trialkylsilyl, R¹¹, phenyl, phenoxy and a 5- or 6-membered heteroaromatic ring, where each phenyl, phenoxy and 5- or 6-membered heteroaromatic ring may optionally be substituted and where the substituents independently of one another may be selected from one to three radicals W or one or more radicals R¹², or

R² and R³ may be attached to one another and form the ring M,

R⁴ represents hydrogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₆-cycloalkyl, C₁-C₆-haloalkyl, C₂-C₆-haloalkenyl, C₂-C₆-haloalkynyl, C₃-C₆-halocycloalkyl, halogen, cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkylsulfinyl, C₁-C₄-haloalkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino, C₃-C₆-trialkylsilyl or represents phenyl, benzyl or phenoxy, each of which is optionally mono- or polysubstituted, where the substituents independently of one another may be selected from the group consisting of C₁-C₄-alkyl, C₂-C₄-alkenyl, C₂-C₄-alkynyl, C₃-C₆-cycloalkyl, C₁-C₄-haloalkyl, C₂-C₄-haloalkenyl, C₂-C₄-haloalkynyl, C₃-C₆-halocycloalkyl, halogen, cyano, nitro, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino, C₃-C₆-(alkyl)cycloalkylamino, C₂-C₄-alkylcarbonyl, C₂-C₆-alkoxycarbonyl, C₂-C₆-alkylaminocarbonyl, C₃-C₈-dialkylaminocarbonyl and C₃-C₆-trialkylsilyl,

R⁵ and R⁸ in each case independently of one another represent hydrogen, halogen or represent in each case optionally substituted C₁-C₄-alkyl, C₁-C₄-haloalkyl, R¹², G, J, -OJ, -OG, -S(O)_p-J, -S(O)_p-G, -S(O)_p-phenyl, where the substituents independently of one another may be selected from one to three radicals W or from the group consisting of R¹², C₁-C₁₀-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₁-C₄-alkoxy and C₁-C₄-alkylthio, where each substituent may be substituted by one or more substituents independently of one

- another selected from the group consisting of G, J, R⁶, halogen, cyano, nitro, amino, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkylsulfinyl, C₁-C₄-haloalkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-trialkylsilyl, phenyl and phenoxy, where each phenyl or phenoxy ring may optionally be substituted and where the substituents independently of one another may be selected from one to three radicals W or one or more radicals R¹²,
- G in each case independently of one another represent a 5- or 6-membered non-aromatic carbocyclic or heterocyclic ring which may optionally contain one or two ring members from the group consisting of C(=O), SO and S(=O)₂ and which may optionally be substituted by one to four substituents independently of one another selected from the group consisting of C₁-C₂-alkyl, halogen, cyano, nitro and C₁-C₂-alkoxy, or independently of one another represent C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₇-cycloalkyl, (cyano)-C₃-C₇-cycloalkyl, (C₁-C₄-alkyl)-C₃-C₆-cycloalkyl, (C₃-C₆-cycloalkyl)-C₁-C₄-alkyl, where each cycloalkyl, (alkyl)cycloalkyl and (cycloalkyl)alkyl may optionally be substituted by one or more halogen atoms,
- J in each case independently of one another represent an optionally substituted 5- or 6-membered heteroaromatic ring, where the substituents independently of one another may be selected from one to three radicals W or one or more radicals R¹²,
- R⁶ independently of one another represent -C(=E¹)R¹⁹, -LC(=E¹)R¹⁹, -C(=E¹)LR¹⁹, -LC(=E¹)LR¹⁹, -OP(=Q)(OR¹⁹)₂, -SO₂LR¹⁸ or -LSO₂LR¹⁹, where each E¹ independently of one another represents O, S, N-R¹⁵, N-OR¹⁵, N-N(R¹⁵)₂, N-S=O, N-CN or N-NO₂,
- R⁷ represents hydrogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, halogen, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkylsulfinyl, C₁-C₄-haloalkylsulfonyl,

- R⁹ represents C₁-C₄-haloalkyl, C₁-C₄-haloalkoxy, C₁-C₄-haloalkylsulfinyl or halogen,
- R¹⁰ represents hydrogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, halogen, cyano or C₁-C₄-haloalkoxy,
- R¹¹ in each case independently of one another represents in each case optionally mono- to trisubstituted C₁-C₆-alkylthio, C₁-C₆-alkylsulfenyl, C₁-C₆-haloalkylthio, C₁-C₆-haloalkylsulfenyl, phenylthio or phenylsulfenyl, where the substituents independently of one another may be selected from the list W, -S(O)_nN(R¹⁶)₂, -C(=O)R¹³, -L(C=O)R¹⁴, -S(C=O)LR¹⁴, -C(=O)LR¹³, -S(O)_nNR¹³C(=O)R¹³, -S(O)_nNR¹³C(=O)LR¹⁴ or -S(O)_nNR¹³S(O)₂LR¹⁴,
- L in each case independently of one another represents O, NR¹⁸ or S,
- R¹² in each case independently of one another represents -B(OR¹⁷)₂, amino, SH, thiocyanato, C₃-C₈-trialkylsilyloxy, C₁-C₄-alkyl disulfide, -SF₅, -C(=E¹)R¹⁹, -LC(=E¹)R¹⁹, -C(=E¹)LR¹⁹, -LC(=E¹)LR¹⁹, -OP(=Q)(OR¹⁹)₂, -SO₂LR¹⁹ or -LSO₂LR¹⁹,
- Q represents O or S,
- R¹³ in each case independently of one another represent hydrogen or represent in each case optionally mono- or polysubstituted C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl or C₃-C₆-cycloalkyl, where the substituents independently of one another may be selected from the group consisting of R⁶, halogen, cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino or (C₁-C₄-alkyl)-C₃-C₆-cycloalkylamino,
- R¹⁴ in each case independently of one another represent in each case optionally mono- or polysubstituted C₁-C₂₀-alkyl, C₂-C₂₀-alkenyl, C₂-C₂₀-alkynyl or C₃-C₆-cycloalkyl, where the substituents independently of one another may be selected from the group consisting of R⁶, halogen, cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino and (C₁-C₄-alkyl)-C₃-C₆-cycloalkylamino or represent optionally substituted phenyl, where

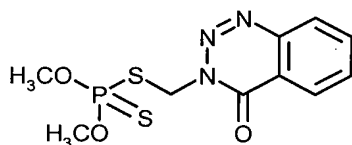
- the substituents independently of one another may be selected from one to three radicals W or one or more radicals R¹²,
- R¹⁵ in each case independently of one another represent hydrogen or represent in each case optionally mono- or polysubstituted C₁-C₆-haloalkyl or C₁-C₆-alkyl, where the substituents independently of one another may be selected from the group consisting of cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkylsulfinyl, C₁-C₄-haloalkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₂-C₆-alkoxycarbonyl, C₂-C₆-alkylcarbonyl, C₃-C₆-trialkylsilyl and optionally substituted phenyl, where the substituents independently of one another may be selected from one to three radicals W or one or more radicals R¹², or N(R¹⁵)₂ represents a cycle which forms the ring M,
- R¹⁶ represents C₁-C₁₂-alkyl or C₁-C₁₂-haloalkyl, or N(R¹⁶)₂ represents a cycle which forms the ring M,
- R¹⁷ in each case independently of one another represent hydrogen or C₁-C₄-alkyl, or B(OR¹⁷)₂ represents a ring in which the two oxygen atoms are attached via a chain having two to three carbon atoms which are optionally substituted by one or two substituents independently of one another selected from the group consisting of methyl and C₂-C₆-alkoxycarbonyl,
- R¹⁸ in each case independently of one another represent hydrogen, C₁-C₆-alkyl or C₁-C₆-haloalkyl, or N(R¹³)(R¹⁸) represents a cycle which forms the ring M,
- R¹⁹ in each case independently of one another represent hydrogen or represent in each case mono- or polysubstituted C₁-C₆-alkyl, where the substituents independently of one another may be selected from the group consisting of cyano, nitro, hydroxyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkylsulfinyl, C₁-C₄-haloalkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, CO₂H, C₂-C₆-alkoxycarbonyl, C₂-C₆-alkylcarbonyl, C₃-C₆-trialkylsilyl and optionally substituted phenyl, where the substituents

- independently of one another may be selected from one to three radicals W, C₁-C₆-haloalkyl, C₃-C₆-cycloalkyl or phenyl or pyridyl, each of which is optionally mono- to trisubstituted by W,
- M in each case represents an optionally mono- to tetrasubstituted ring which, in addition to the nitrogen atom attached to the substituent pair R¹³ and R¹⁸, (R¹⁵)₂ or (R¹⁶)₂, contains two to six carbon atoms and optionally additionally a further nitrogen, sulfur or oxygen atom, where the substituents independently of one another may be selected from the group consisting of C₁-C₂-alkyl, halogen, cyano, nitro and C₁-C₂-alkoxy,
- W in each case independently of one another represent C₁-C₄-alkyl, C₂-C₄-alkenyl, C₂-C₄-alkynyl, C₃-C₆-cycloalkyl, C₁-C₄-haloalkyl, C₂-C₄-haloalkenyl, C₂-C₄-haloalkynyl, C₃-C₆-halocycloalkyl, halogen, cyano, nitro, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-alkylamino, C₂-C₈-dialkylamino, C₃-C₆-cycloalkylamino, (C₁-C₄-alkyl)-C₃-C₆-cycloalkylamino, C₂-C₄-alkylcarbonyl, C₂-C₆-alkoxycarbonyl, CO₂H, C₂-C₆-alkylaminocarbonyl, C₃-C₈-dialkylaminocarbonyl or C₃-C₆-trialkylsilyl,
- n in each case independently of one another represent 0 or 1,
- p in each case independently of one another represent 0, 1 or 2,
- where, if (a) R⁵ represents hydrogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₂-C₆-haloalkenyl, C₂-C₆-haloalkynyl, C₁-C₄-haloalkoxy, C₁-C₄-haloalkylthio or halogen and (b) R⁸ represents hydrogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₂-C₆-haloalkenyl, C₂-C₆-haloalkynyl, C₁-C₄-haloalkoxy, C₁-C₄-haloalkylthio, halogen, C₂-C₄-alkylcarbonyl, C₂-C₆-alkoxycarbonyl, C₂-C₆-alkylaminocarbonyl or C₃-C₈-dialkylaminocarbonyl, (c) at least one substituent selected from the group consisting of R⁶, R¹¹ and R¹² is present and (d) if R¹² is not present, at least one of the radicals R⁶ and R¹¹ is different from C₂-C₆-alkylcarbonyl, C₂-C₆-alkoxycarbonyl, C₂-C₆-alkylaminocarbonyl and C₃-C₈-dialkylaminocarbonyl, and where the compound of the general formula (I) may also be an N-oxide or salt,

and at least one insecticidally active compound of groups 2 and 3 below selected from

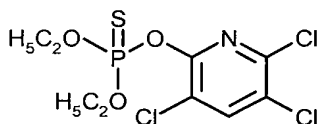
A) (group 2),

(2-1) azinphos-methyl



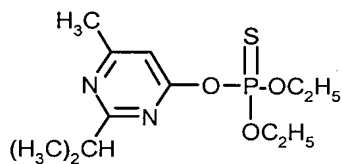
and/or

(2-2) chlorpyrifos



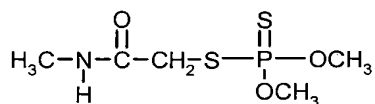
and/or

(2-3) diazinon



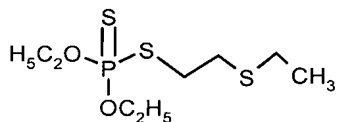
and/or

(2-4) dimethoate



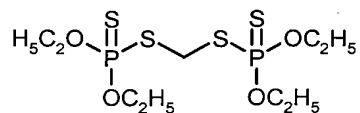
and/or

(2-5) disulfoton



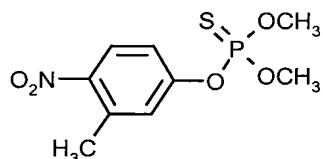
and/or

(2-6) ethion



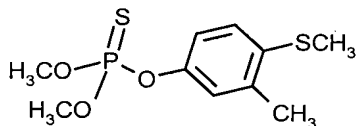
and/or

(2-7) fenitrothion



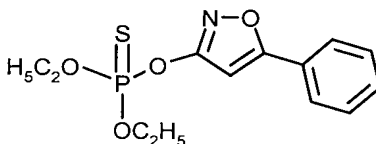
~~ad/or~~ and/or

(2-8) fenthion



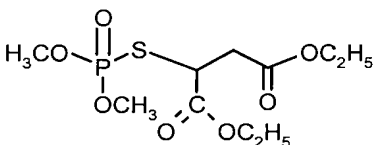
and/or

(2-9) isoxathion



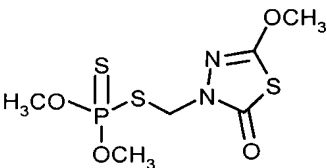
and/or

(2-10) malathion



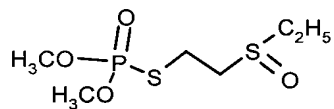
and/or

(2-11) methidathion



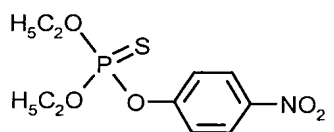
and/or

(2-12) oxydemeton-methyl



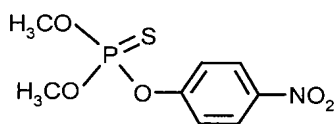
and/or

(2-13) parathion



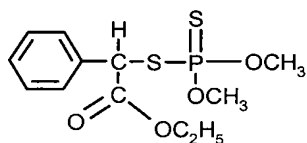
and/or

(2-14) parathion-methyl



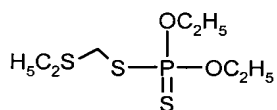
and/or

(2-15) phenthoate



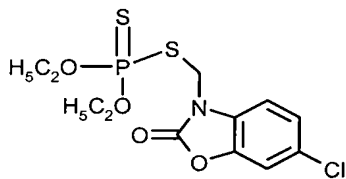
and/or

(2-16) phorate



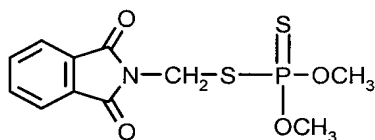
and/or

(2-17) phosalone



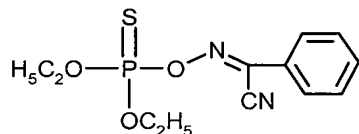
and/or

(2-18) phosmet



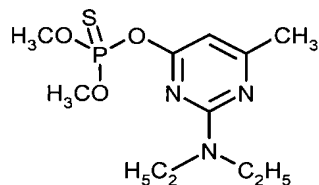
and/or

(2-19) phoxim



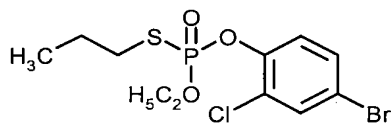
and/or

(2-20) pirimiphos-methyl



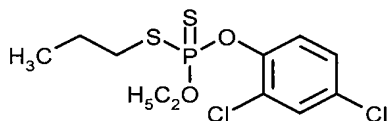
and/or

(2-21) profenophos



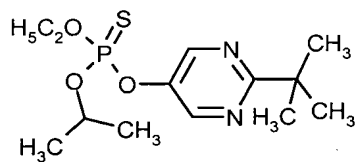
and/or

(2-22) prothiophos



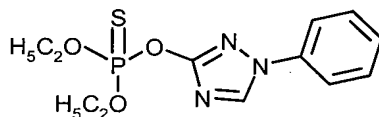
and/or

(2-23) tebupirimphos



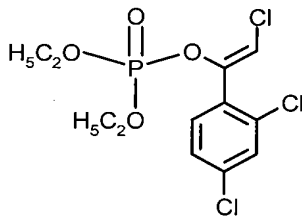
and/or

(2-24) triazophos



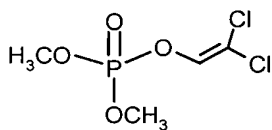
and/or

(2-25) chlorfenvinphos



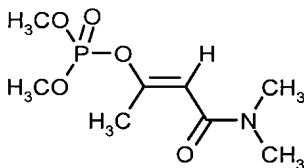
and/or

(2-26) dichlorphos



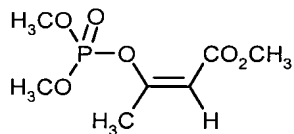
and/or

(2-27) dicrotophos



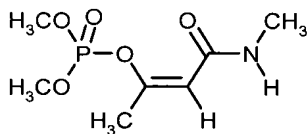
and/or

(2-28) mevinphos



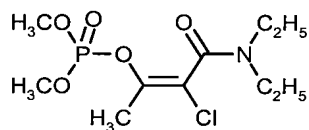
and/or

(2-29) monocrotophos



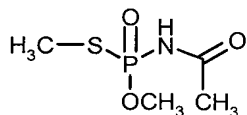
and/or

(2-30) phosphamidon



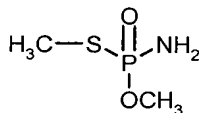
and/or

(2-31) acephate



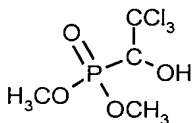
and/or

(2-32) methamidophos



and/or

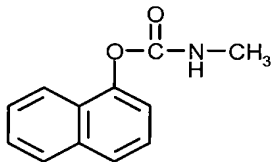
(2-33) trichlorfon



and/or

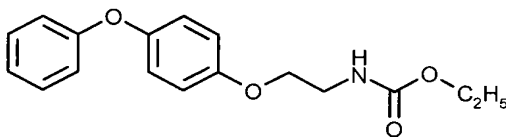
B) (group 3),

(3-1) carbaryl



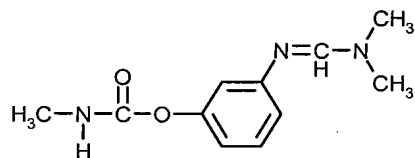
and/or

(3-2) fenoxycarb



and/or

(3-3) formetanate

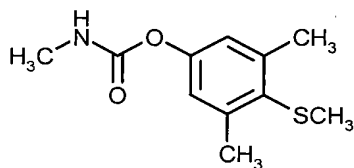


and/or

(3-4) formetanate hydrochloride

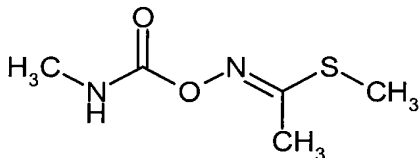
and/or

(3-5) methiocarb



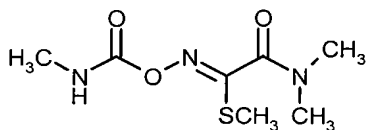
and/or

(3-6) methomyl



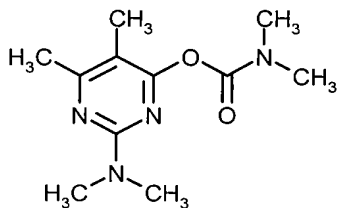
and/or

(3-7) oxamyl



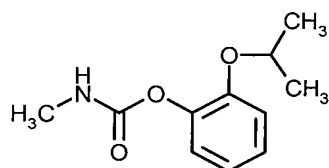
and/or

(3-8) pirimicarb (= Pirimor)



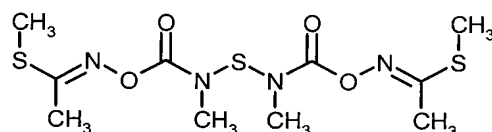
and/or

(3-9) propoxur

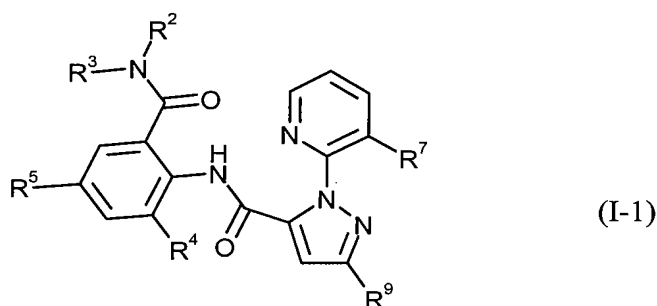


and/or

(3-10) thiodicarb



2. (Currently amended) The composition as claimed in claim 1 comprising at least one compound of the formula (I-1) ~~in which~~:



in which

- R^2 represents hydrogen or C_1 - C_6 -alkyl,
 R^3 represents C_1 - C_6 -alkyl which is optionally substituted by one R^6 ,
 R^4 represents C_1 - C_4 -alkyl, C_1 - C_2 -haloalkyl, C_1 - C_2 -haloalkoxy or halogen,
 R^5 represents hydrogen, C_1 - C_4 -alkyl, C_1 - C_2 -haloalkyl, C_1 - C_2 -haloalkoxy or halogen,
 R^6 represents $-C(=E^2)R^{19}$, $-LC(=E^2)R^{19}$, $-C(=E^2)LR^{19}$ or $-LC(=E^2)LR^{19}$, where each E^2 independently of one another represents O, S, $N-R^{15}$, $N-OR^{15}$, $N-N(R^{15})_2$, and each L independently of one another represents O or NR^{18} ,
 R^7 represents C_1 - C_4 -haloalkyl or halogen,
 R^9 represents C_1 - C_2 -haloalkyl, C_1 - C_2 -haloalkoxy, $S(O)_p$ - C_1 - C_2 -haloalkyl or halogen,

R¹⁵ in each case independently of one another represent hydrogen or represent in each case optionally substituted C₁-C₆-haloalkyl or C₁-C₆-alkyl, where the substituents independently of one another may be selected from the group consisting of cyano, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, C₁-C₄-alkylsulfonyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkylsulfinyl and C₁-C₄-haloalkylsulfonyl,

R¹⁸ in each case represents hydrogen or C₁-C₄-alkyl,

R¹⁹ in each case independently of one another represent hydrogen or C₁-C₆-alkyl,

and

p independently of one another represent 0, 1, 2.

3. (Previously presented) The composition as claimed in claim 1 or 2 comprising at least one compound selected from the group consisting of
 - (2-2) chlorpyrifos,
 - (2-31) acephate,
 - (2-32) methamidophos,
 - (3-1) carbaryl,
 - (3-5) methiocarb, and
 - (3-10) thiodicarb.
4. (Previously presented) The composition as claimed in claim 1, comprising at least one compound of formula (I) and at least one compound from group 2 and/or group 3 in a ratio of 50:1 to 1:50.
5. (Cancelled).
6. (Previously presented) A process for preparing pesticides, comprising contacting a synergistically effective mixture as defined in claim 1 with extenders and/or surfactants.

7. (Previously presented) A method for controlling animal pests, comprising allowing a synergistically effective mixture as defined in claim 1 to act on animal pests and/or their habitat.